County Halt	sec. 30 T. 62 R. 38
Owner Everitt, J.H.	etal. Elev. 998.2 MGS# 5801
Farm Spring	No TD 2862 Shows _ Spls V

Date

Remarks:

Status

00007

Completed 7-10-39 Fm@TD Kimmswick

Log of J. H. Everitt, M. J. Lewis, et al No. 1 Fred Spring. Location: 330 feet north and 330 feet east of the center of the south line SW 1/4 SW 1/4 SE 1/4 sec. 30, T. 62 N., R. 38 W., Holt County, Missouri, near Mound City. Surface elevation, 998 feet (P.T.). Commenced, 3-7-39, and completed, 1-10-39. Total depth, 2862 feet. Dry and abandoned. Rotary test. Casing record: 8 inch surface pipe set at 234 feet; and set 2541 feet of 5 3/16 inch pipe in order to restore circulation. Contractor: Miles J. Lewis, Houston, Texas.

FORMATIONAL SUMMARY		
	Thickness,	Depth,
Pleistocene and Recent Series:	feet	feet
Surface soil, glacial drift and Pennsylvanian (?)	300	300
Pennsylvanian system:		
Shawnee-Douglas groups (Lecompton and Oread at 300-403		
ft.) Pedee group	260	560
Lansing-Kansas City groups	40 310	600
Pleasanton-Henrietta groups	200	910 1110
Cherokee group	793	1903
		1000
Mississippian system:		
St. Louis formation		1925
Spergen-Warsaw formations Keokuk-Burlington formations	75	2000
Chouteau formation	105 75	2105 2180
Kinderhook shale	20	2200
Devonian (?) system (shale)	84	2281
Devonian system	342	2626
Silurian system	170	2796
Ordovician system:		
Maquoketa formation	46	2842
Fernvale formation	10	2852
Kimmswick formation	10	2862, T.D
SAMPLE LOG		
	hickness.	Depth,
	feet	feet
No samples	300	300
Pennsylvanian system:		
Shawnee group:		
Limestone, tan, argillaceous, fossiliferous	6	306
Shale and limestone: shale, gray to dark gray with tan and gray limestone fragments. Residue contains a		
small amount of silicified tubes	20	20.0
Limestone (Lecompton), gray and tan, argillaceous,	20	326
sandy, highly fossiliferous	34	360
Limestone, as above (probably largely recirculated),		
and gray, fissile, thin-bedded shale with pyrite	10	370
Douglas group:		
Limestone (Oread), light tan and white, fossiliferous.		
Some gray shale occurs between 380-390 feet. Resi-		
due of silicified brachiopod fragments and kaolin		
balls	33	403
Shale, black, carbonaceous	7	410
Shale, gray with calcareous fossils	10	420
Limestone, nodular, fossiliferous with green shale. Res-		
idue contains fossil fragments and a trace of glau-	4.0	1222
conite	10	430
	10	440

Feet Feet 20 460 10 470 10 470 70 544 10 550 10 550 10 550 10 550 10 640 10 650 10 660 10 660 10 660 10 770 20 720 10 730 20 720 20 720 20 720 20 880 20 790 20 880 20 885 5 866 20 940 20 960 10 1000 20 960 10 1000 20 1000		thale	tone tan fessilifeness, rossiliterous limestone			980-990 feet			due contains silicifed foscile	grav, argillaceous highly former	ant remains	Shale, gray, sandy, micaceous with some resit	Pleasanton-Henrietta groups:	obv reet (possibly recirculated)	890 feet (Social red and gray shale occurs above	-	Limestone (Hertha) ten and the	Carbonaccia	stylolites Some colling and black shale partings and	any Falls), light gr	Limestone (Bothers T-1)	ack, platy, carbonaceous with	ins much gray, mottled, fossil	Limestone (Winterset), gray, dense, cherty. Residue con-	lower 10 feet	Limestone, dark gray, argillaceous with dark	ragments of chert and ense. Residue contr			ints	contains silicified spines, tubes and fossil from	toward the bear	tone, white and light	Shale, gray	gray dense formits, sparingly fossiliferous with .	Shale, gray, sandy with plant remains	tains some tan chert and silicified fusulinids	Limestone, gray, argillaceous, fossiliferous Residue con	Shale, gray and black with some limest	due contains some sitisfication in a due contains some sitisfication in a sitisfication in a sitisfication in a situation in a	to	gray shale and pyritized fossils	Limestone, tan to while dense forms	Langing-Reness Cit-	Shale, grav	andstone: shale, gray; and sar	and green shale, and pyritized fossils	Limestone (Iatan), tan, nodular with some fossils red	Podpo group.	Shale, silty, somewhat calcareous with fine-grained	Shale, gray with some gray, fossillferous limestone	Shale, gray with plant remains and mica. Sandy be-	fossiliferous limestone	Shele and line	with streaks of fine-grained microcon-
Feet 460 470 470 540 550 560 560 660 660 660 670 680 770 720 770 770 770 770 7880 880 885 885 910 940 940 960 970 1000 1000 1000	10		10	20	30		10	20		30				25			ST.	20			en.	00	32	20	10	20		10	ט פ	9			10	20		20	10	10	10		10	40		10	20		10		10	10	70	10		20	feet
	1040		1030	1020	1000		970	960		940			0.00	910			885	880		000	860	000	0 77	820	800	790		770	755	1			730	720	.00	700		670	660	0000	050	640		600	590	010	570		560	550	540	470	- 1	460	feet.

		St. Louis formation:
1903	23	
1880	20	Sandstone, fine-grained with black, platy, carbonaceous
1860	20	Shale, black and grav as above
		Shale, as above, with thin lenses of fine-grained sand-
1840	30	dark gray to black
1810	60	urs between 1
1750	30	Shale as above interhedded with fine grained this
1720	10	mains
	4	Sandstone, medium-grained, micaceous with plant re-
1710	30	micaceous, thin-bedded sandstone
1680	30	
1650	10	Shale gray and dark gray to block this leaded
1640	30	coarse, as above, with black and gray shale
1610	110	angular, slightly arkosic sandstone
		grades below 1530 feet into very coarse-grained, sub-
		2
1500	20	Sand medium-grained sub-angular highly missesses
1480	20	Shale, gray
1460	20	Shale, gray, sandy
1440	10	mediu
1430	75	occurs about 1395-1410 feet
1355	30	Shale, gray with siderite spherulites. Much siderite
1	00	coming more coarse-grained toward the base
1325	25	Shale, gray
1300	25	feet
1275	45	
	;	siderite of
1230	10	dcare
1220	ť	Sandstone, fine-grained, argillaceous with pyrite and
	1	Shale, black, carbonaceous with some gray shale and
1215	15	ay shale, silicified spines and worm casts
		fossiliferous, argillaceous. The residue consists of
1200	40	Limestone and shale (Ardmore 2): limestone brown
		y with plan
1160	10	some gray shale
1150	10	Sand, fine-grained, micaceous with plant remains and
	1	Shale, gray with tan limestone fragments, kaolin and
1140	20	Shale, gray, micaceous
1120	10	Cherokee group: Sandstone, much mica and some calcareous cement
1110	51	Shale, black, carbonaceous with limestone, as above
1105	15	опе, в
1090	20	reous fossils and some glauconite
1070	20	Shale, gray and green with limestone nodules, cal-
		Sandstone, fine-grained, angular, sparingly arkosic with
1050	10	andy s
feet	feet	Limestone, dark gray, argillaceous, fossiliferous with
Depth	Thickness,	Th

Limestone, tan, dense to lithographic with some pyrite.

Oolitic limestone occurs between 1910-1915 feet. The residue, small, of sand grains, quartz rosettes and some small, doubly terminated quartz crystals ...

22

1925

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large amount of recirculated limest

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	10	smooth to rough porous chert			
		crystalline with white to slightly brownish, hard,	2390	· N.9	:
			2380	h2 h	ray to brown, lithographic, dolomitic
	10	blue-gray, fossiliferous chert	0276		No samples 5
		Dolomite, white to dark bluish, crystalline, porous, pyritic with included spots of green shale and some	2373		fine-grained to very finely grassial
			2370		Dolomite (core para core 10
	אט	Dolomite, dark gray, fine-grained, very argillaceous with some chert and green shale	2360		slightly porous and with limestone as about the slightly porous and with limestone as a slightly porous and a slightly porous
	32	with white chert in alternating beds below 2817 feet			icost ninographic, slightly
	9	Shale, light green with brown fine-grained delenite	2320		Limestone, brown, dense to almost its 36
		Maquoket formation:			grained, slightly dolomitic, pyritic and fossiliferous
	18	white porcelain-like chert	2284		
	91	Dolomite, bluish to gray, finely crystalline compact with	2000	74	
		line, somewhat compact, generally porous, with	2210	10	
		2685 feet.			gray with large, discoidal, hematite continued
		NOTE: Circulation was lost but recovered circulation at	2200	15	
	39		2185	5	and green
	10	Dolomite, white to light blue, porous	2100		No sample.
			2180	35	
	14		2145	Ć1	Limestone, tan and gray, dense. Residue, small of
		line quartz and small amounts of rounded freely	2140	10	Dolomitic limestone, grav. fine-grained
		Dolomite, white to light gray and sometimes brown,			sized and cemented into a limestone which breaks
		and very small amount of sand	2130	25	Limestone, light tan, collific College
	4				terial to largely composed of recirculated ma-
		with a very small amount of sand			fine-grained crystalline. Residue contains
	14	of sand and some pyrite			brachioned for earthy gray, dense with some
		porous chert, and some rounded and frosted grains			Limestone and dolomitic limestone: limestone
	19	light to war and to the control of t	2105	55	Chouteau formation:
		2571-2574 feet with no recovery.	y of this		to dense, crinoidal chert
		5 3/16 inch pipe was set at 2541 feet. The hole was cound from			Residue consists of what he and 2090-2105 feet.
		NOTE: The circulation in the well was lost at 2555 feet.	000		mitic beds of white, fine-grained crystalline, crimitic beds of white, fine-grained crystalline, in
	24		5050	en.	Limestone coarsely and chert
	52				ple looks as though it were from a filled crevice
	15	Dolomite, light tan, finely crystalline, compact and even	2045	10	with coarsely crystalline second
		contains small amounts of green shale and blue-		ñ	Chert and I chert white, dense and
		crystalline variety at 2495 feet. This sample also			cherty. The residue contains white
51	15	Dolomite gray grading tate a become			Limestone white
					Keokuk-Burlingtone and chert.
9	10	Dolomite, dark brown, fine-grained to finely crystalline			rge amount of recipental and a questionable due to the
9	10	mite and some brown, mottled and speckled chert	2000	50	NOTE: The base of the Warsaw is most
9	30	Dolomite, as above, with also some gray, sucrose dolo-		0	white, mottled, fossiliferous chert gray and
		brown shale	1900	1	(many crinoids). The residue consists
O1	25	crystalline, quartzose chert	4070	25	Limestone tan and Transitioned spines and pyrite
		Dolomite, brown, finely to medium crystalline, com- pact with some gray, dolocastic shale and brown			and white chert. The residue consists of the
tess,	feet		feet	Jeet	Dolomitic limesetone, tan, fine-grained, crystalline.
		T.	Depth,	Thickness,	aw formations:
1.1	noce	Those are a market and a few first			

Devonian system:

2862, T.D.

2852

2796 2778

2842 2837 2805

2636 2648 2687

2626

2612

2608 2604 2590

2547 2571

2495

2480

2465

2445 2415 Depth, feet

119

Devonian system (?):

RECENT DRILLING

in

NORTHWESTERN MISSOURI

, By FRANK C. GREENE



REPORT OF INVESTIGATIONS NO. 1
1945

EDWARD L. CLARK, Director and State Geologist
MISSOURI GEOLOGICAL SURVEY AND
WATER RESOURCES
ROLLA, MISSOURI